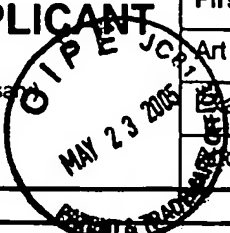


Substitute for form 1449/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 1 of 2	Application Number	10/674594
	Filing Date	September 29, 2003
	First Named Inventor	Vernstrom, George D.
	Art Unit	1754
	Examiner Name	Thomas H. Parsons
	Attorney Case Number	58460US002



U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
THP	A1	US- 4,316,944	02/23/1982	Landsman et al. 429/44	
	A2	US- 6,300,000 B1	10/09/2001	Cavalca et al. 429/40	
	A3	US- 6,482,763 B2	11/19/2002	Haugen et al. 502/101	
THP	A4	US- 2002/146614 A1	10/10/2002	Norskov et al.	
	A5	US-			

Foreign Patent Documents							
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		Ctry. Code	Number-Kind Code (if known)				
THP	B1	EP	0 827 225 A2	03/04/1998	N. E. Chemcat Corporation		
THP	B2	WO	03/073541 A1	09/04/2003	Symyx Technologies, Inc.		
	B3						

OTHER DOCUMENTS			
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
THP	C1	Sanjeev Mukerjee and Supramaniam Srinivasan; "Enhanced Electrocatalysis of Oxygen Reduction on Platinum Alloys in Proton Exchange Membrane Fuel Cells", <u>Journal of the Electroanalytical Chemistry</u> , Lausanne, CH, Vol. 357, 1993, pp. 201 - 224.	
	C2	U. A. Paulus, A. Wokaun, G. g. Scherer, T. J. Schmidt, V. Stamenkovic, N. M. Markovic, and P. N. Ross; "Oxygen Reduction on High Surface Area Pt-based Alloy Catalysts in Comparison to Well Defined Smooth Bulk Alloy Electrodes", <u>Electrochimica Acta</u> , Elsevier Science Publishers, Barking, GB, Vol. 47, No. 22 - 23, August 30, 2002, pp. 3787 - 3798.	
	C3	A. K. Shukla, M. Neergat, Parthasarathi Bera, V. Jayaram, and M. S. Hegde; "An XPS Study on Binary and Ternary Alloys of Transition Metals With Platinized Carbon and Its Bearing Upon Oxygen Electroreduction in Direct Methanol Fuel Cells", <u>Journal of Electroanalytical Chemistry</u> , Vol. 504, No. 1, 2001, pp. 111 - 119.	
THP	C4	Takako Toda, Hiroshi Igarashi, Hiroyuki Uchida, and Masahiro Watanabe; "Enhancement of the Electroreduction of Oxygen on Pt Alloys With Fe, Ni, and Co", <u>Journal of the Electrochemical Society</u> , Vol. 146, No. 10, October 1999, pp. 3750 - 3756.	

*Examiner: <u>Thomas H. Parsons</u>	Date Considered: <u>11/15/2005</u>
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THP	C5	A. Lima, C. Coutanceau, J. M. Leger, and C. Lamy; "Investigation of Ternary Catalysts for Methanol Electrooxidation", <u>Journal of Applied Electrochemistry</u> , Chapman and Hall, London, GB, Vol. 31, 2001, pp. 379 – 386.	
THP	C6	Peter Strasser, Qun Fan, Martin Devenney, and W. Henry Weinberg; "High Throughput Experimental and Theoretical Predictive Screening of Materials – A Comparative Study of Search Strategies for New Fuel Cell Anode Catalysts", <u>Journal of Physical Chemistry B</u> , Vol. 107, No. 40, September 17, 2003, pp. 11013 – 11021.	
	C7		
	C8		

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Information Disclosure Statement)

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THP	A1	US- 3,969,545	07/13/1976	Slocum	
	A2	US- 4,148,294	04/10/1979	Scherber et al.	
	A3	US- 4,155,781	05/22/1979	Diepers	
	A4	US- 4,209,008	06/24/1980	Lemkey et al.	
	A5	US- 4,252,865	02/24/1981	Gilbert et al.	
	A6	US- 4,252,843	02/24/1981	Dorer et al.	
	A7	US- 4,340,276	07/20/1982	Maffitt, et al.	
	A8	US- 4,396,643	08/02/1983	Kuehn et al.	
	A9	US- 4,568,598	02/04/1986	Bilkadi et al.	
	A10	US- 4,812,352	03/14/1989	Debe	
	A11	US- 4,985,386	01/15/1991	Tsurumi et al.	
	A12	US- 5,039,561	08/13/1991	Debe	
	A13	US- 5,079,107	01/07/1992	Jalan	
	A14	US- 5,138,220	08/11/1992	Kirkpatrick	
	A15	US- 5,176,786	01/05/1993	Debe	
	A16	US- 5,336,558	08/09/1994	Debe	
	A17	US- 5,338,430	08/16/1994	Parsonage et al.	
	A18	US- 5,593,934	01/14/1997	Stonehart	
	A19	US- 5,763,363	06/09/1998	Schulz et al.	
	A20	US- 5,872,074	02/16/1999	Schulz et al.	
	A21	US- 5,879,827	03/09/1999	Debe et al.	
	A22	US- 5,879,828	03/09/1999	Debe et al.	
	A23	US- 6,040,077	03/21/2000	Debe et al.	
	A24	US- 6,051,046	04/18/2000	Schulz et al.	
	A25	US- 6,136,412	10/24/2000	Spiewak et al.	
	A26	US- 6,183,668 B1	02/06/2001	Debe et al.	
✓	A27	US- 6,277,170 B1	08/21/2001	Schulz et al.	
THP	A28	US- 6,319,293 B1	11/20/2001	Debe et al.	

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	A29	US- 6,465,041 B1	10/15/2002	Frisk et al.	
	A30	US- 6,703,068 B2	03/09/2004	Hintzer et al.	
	A31	US- 2001/0031338 A1	10/18/2001	Han	
	A32	US- 2002/0004453 A1	01/10/2002	Haugen et al.	
	A33	US- 2003/0134178 A1	07/17/2003	Larson	

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THP	B1	WO	96/23906	08/08/1996			
THP	B2	EP	0 671 357 A1, B1 (Abstract)	09/13/1995			
	B3						
	B4						
	B5						
	B6						
	B7						

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
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THP	C1	N. M. Markovic, T. J. Schmidt, V. Stamenkovic, and P. N. Ross, "Oxygen Reduction Reaction on Pt and Pt Bimetallic Surfaces: A Selective Review", Fuel Cells 2001, Vol. 1, No. 2., pp. 105 – 116.
	C2	U. A. Paulus, A. Wokaun, and G. G. Scherer, T. J. Schmidt, V. Stamenkovic, V. Radmilovic, N. M. Markovic, and P. N. Ross; "Oxygen Reduction on Carbon-Supported Pt – Ni and Pt – Co Alloy Catalysts", J. Phys. Chem. B, April 25, 2002, Vol. 106, No. 106, pp. 4181 – 4191.
	C3	J. McBreen and S. Mukerjee: "In Situ X-Ray Absorption Studies of Carbon Supported Pt and Pt Alloy Nanoparticles" in A. Wieckowski ed.: Interfacial Electrochemistry, M. Dekker, 1999, pp. 895 – 914.
THP	C4	M. Watanabe, H. Uchida, Y. Matsuura; "Experimental Analysis: The Role Of The Electronic Structure Change By Pt-Alloying In The Fuel Cell Reactions", Keynote Lecture at 4 th International Conference on Electrocatalysis, Clean Energy Research Center, Yamanashi University, Takeda 4, Kofu 400-8510, Japan, September 23-25, 2002, Como, Italy (Abstract) K16.

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THP	C5	G.M. Chow, W.B. Stockton, R. Price, S. Baral, A.C. Ting, B.R. Ratna, P.E. Shoen, and J.M. Schnur, G.L. Bergeron, M.A. Czarnaski, J.J. Hickman, and D. A. Kirkpatrick; "Fabrication Of Biologically Based Microstructure Composites For Vacuum Field Emission"; Materials Science and Engineering, A158, (1992), pp. 1 – 6.
	C6	K. K. Kam, M. K. Debe, R. J. Poirier, and A. R. Drube; "Summary Abstract: Dramatic Variation Of The Physical Microstructure Of A Vapor Deposited Organic Thin Film", J. Vac. Sci. Technol A, 5, (4), July/August, 1987, pp. 1914 – 1916.
	C7	J. A. Floro, S. M. Rossnagel, and R. S. Robinson; "Ion-bombardment-induced Whisker Formation On Graphite", J. Vac. Sci. Technol A, 1, (3), July/September, 1983, pp. 1398 – 1402.
	C8	M. K. Debe, K. K. Kam, J. C. Liu, and R. J. Poirier, "Vacuum Vapor Deposited Thin Films Of A Perylene Dicarboximide Derivative; Microstructure Versus Deposition Parameters", J. Vac. Sci. Technol A, 6, (3), May/Jun, 1988, pp. 1907 – 1911.
	C9	M. K. Debe and R. J. Poirier; "Effect of Gravity On Copper Phthalocyanine Thin Films III: Microstructure Comparisons Of Copper Phthalocyanine Thin Films Grown In Microgravity And Unit Gravity", Thin Solid Films 186, 1990, pp. 327 – 347.
	C10	Y. Sadaoka, T. A. Jones, G. S. Revell, and W. Gopel; "Effects Of Morphology On NO ₂ Detection In Air At Room Temperature With Phthalocyanine Thin Films", J. Mat. Sci. 25, 1990, pp. 5257 – 5268.
	C11	Rapidly Quenched Metals, Proc of the Fifth Int. Conf on Rapidly Quenched Metals, Wurzburg, Germany, Sept 3 – 7, 1984, S. Steeb et al., eds., Elsevier Science Publishers B.V., New York, 1985, pp. 1117 – 1124.
	C12	P. K. Lee and M. K. Debe; "Measurement and Modeling of the Reflectance-Reducing Properties of Gradient Index Microstructured Surfaces", Photographic Science and Engineering, Vol. 24, (4), July/August, 1980, pp. 211 – 216.
	C13	K. Robbie, L. J. Friedrich, S. K. Dew, J. Smy and M. J. Brett; "Fabrication Of Thin Films With Highly Porous Microstructures", J. Vac. Sci. Technol. A 13(3), May/Jun, 1995, pp. 1032 – 1035.
THP	C14	K. Robbie, M. J. Brett and A. Lakhtokia; "First Thin Film Realization Of A Helicoidal Bianisotropic Medium", J. Vac. Sci. Technol. A 13(6), Nov/Dec, 1995, pp. 2991 – 2993.
	C15	

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